

## Nelfinavir Mesylate

## Chemical Properties

CAS No. : 159989-65-8

Formula: C<sub>33</sub>H<sub>49</sub>N<sub>3</sub>O<sub>7</sub>S<sub>2</sub>

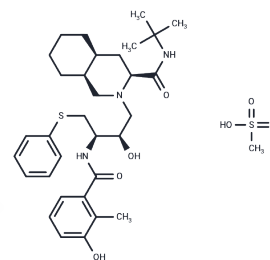
Molecular Weight: 663.89

Storage:

Keep away from direct sunlight, Store at low temperature, Keep away from moisture

Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Nelfinavir Mesylate (Viracept) is an effective HIV protease inhibitor (K <sub>i</sub> : 2 nM).
Targets(IC <sub>50</sub> )	HIV Protease
Kinase Assay	GTPγ[35S] binding assay: The cells are homogenized and centrifuged at 26900 × g for 30 min at 4°C. Membranes are re-suspended in 20 mM HEPES (pH 7.4), 100 mM NaCl, 10 mM MgCl <sub>2</sub> , 1 mM EDTA and 0.1% fat-free BSA at 2–3 mg protein/mL. GTPγ[35S] binding assay is performed with the membranes (75 mg protein /mL in 50 mM HEPES, 100 mM NaCl, 10 mM MgCl <sub>2</sub> , 20 μg/mL saponin and 0.1% fat-free BSA (pH 7.4), 5 mg/mL with wheat-germ agglutinin-coated scintillation proximity assay-bead, and 10 μM GDP for 10–15 min. The GTPγ[35S]-binding reaction is started by the addition of 200 pM GTPγ[35S]. After 120 min at room temperature, the plates are centrifuged for 10 min at 300 × g and counted.

## Solubility Information

Solubility	H <sub>2</sub> O: < 1 mg/mL (insoluble or slightly soluble), DMSO: 93 mg/mL (140.08 mM), Sonication is recommended. Ethanol: 93 mg/mL (140.08 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 5 mg/mL (7.53 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	1.5063 mL	7.5314 mL	15.0627 mL
5 mM	0.3013 mL	1.5063 mL	3.0125 mL
10 mM	0.1506 mL	0.7531 mL	1.5063 mL
50 mM	0.0301 mL	0.1506 mL	0.3013 mL

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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

#### Reference

Xiang T, et al. Y Lett. 2015 Aug 1;364(1):79-88.

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